



Morbidity and Mortality

Vol. 16, No. 46

WEEKLY REPORT

Week Ending
November 18, 1967

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

PUBLIC HEALTH SERVICE

BUREAU OF DISEASE PREVENTION AND ENVIRONMENTAL CONTROL

EPIDEMIOLOGIC NOTES AND REPORTS

HUMAN CASE OF COWPOX - Indiana

Human cowpox has been clinically diagnosed in a 56-year-old woman from Loogootee, Indiana, and confirmed by virologic studies at NCDC. Following contact with a dairy cow which developed cowpox-like lesions on the udder, the woman noted lesions on her hands and onset of fever and malaise on October 30. These lesions progressed through papular, vesicular, pustular, and crusting stages. Further clinical and epidemiologic investigations are in progress.

Crust material from the patient, submitted to NCDC on November 15, revealed suspicious pox virus particles by electron microscopy. Cytopathic effect was observed in human embryonic lung fibroblast (RU₁) tissue culture on the 3rd day following inoculation. Electron microscopy of

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this tissue revealed pox virus particles. An agar gel diffusion test was positive for the pox virus group and suggested cowpox. Definitive diagnosis of cowpox was made on November 20 when characteristic hemorrhagic pocks on chicken chorioallantoic membranes were observed. Serologic studies are pending.

(Reported by A.L. Marshall, Jr., M.D., Director, Division of Communicable Disease Control, Indiana State Board of Health; E.B. Lett, M.D., Loogootee, Indiana; Viral Exanthems Laboratory, and an EIS Officer, NCDC.)

CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

DISEASE	46th WEEK ENDED		MEDIAN 1962 - 1966	CUMULATIVE, FIRST 46 WEEKS		
	NOVEMBER 18, 1967	NOVEMBER 19, 1966		1967	1966	MEDIAN 1962 - 1966
Aseptic meningitis	61	67	45	2,725	2,689	1,914
Brucellosis	8	3	4	222	219	326
Diphtheria	4	1	5	144	172	238
Encephalitis, primary:						
Arthropod-borne & unspecified	19	45	---	1,441	1,948	---
Encephalitis, post-infectious	9	5	---	698	657	---
Hepatitis, serum	51	40	665	1,968	1,280	33,705
Hepatitis, infectious	836	714		34,086	28,396	
Malaria	60	12	4	1,856	429	94
Measles (rubeola)	310	1,166	1,702	60,198	195,563	368,873
Meningococcal infections, total	38	49	46	1,949	3,072	2,454
Civilian	37	44	---	1,827	2,780	---
Military	1	5	---	122	292	---
Polio, total	2	3	3	35	90	106
Paralytic	—	3	3	26	85	85
Rubella (German measles)	307	263	---	42,122	43,843	---
Streptococcal sore throat & scarlet fever	8,494	8,260	6,436	392,397	369,505	343,445
Tetanus	4	3	6	198	171	249
Tularemia	4	6	2	154	164	255
Typhoid fever	8	7	10	372	345	406
Typhus, tick-borne (Rky. Mt. spotted fever)	—	4	1	293	243	218
Rabies in animals	67	85	72	3,802	3,612	3,612

NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax	2	Rabies in man	2
Botulism	2	Rubella, Congenital Syndrome	7
Leptospirosis: Calif.-1	38	Trichinosis: Tenn.-1	54
Plague	2	Typhus, murine	40
Psittacosis: Calif.-1, Minn.-1	42	Polio, Unsp. Calif.-2	9

CURRENT TRENDS MEASLES

A graph of the measles cases reported in the United States since 1962 is shown by 4-week periods in Figure 3. Above the graph is a pictorial representation of the amount of live measles virus vaccine distributed during this period. The striking decline in incidence of reported cases of measles appears to be related to increasing vaccine usage.

This decline is also reflected in the geographic distribution of the counties or health districts reporting 10 or more cases of measles for 4-week periods. During the first 4 weeks of the epidemiologic years 1966-67 and 1967-68, 60 counties in 24 states reported 10 or more cases. For the comparable period in 1967, however, 25 counties in 14 states reported 10 or more cases (Figure 4).

A similar reduction is notable in the numbers of counties reporting three or more cases. For the first 4 weeks

Figure 3
REPORTED CASES OF MEASLES BY 4-WEEK PERIODS
WITH PICTOGRAM OF DISTRIBUTION OF LIVE
MEASLES VIRUS VACCINE
UNITED STATES, 1962-1967

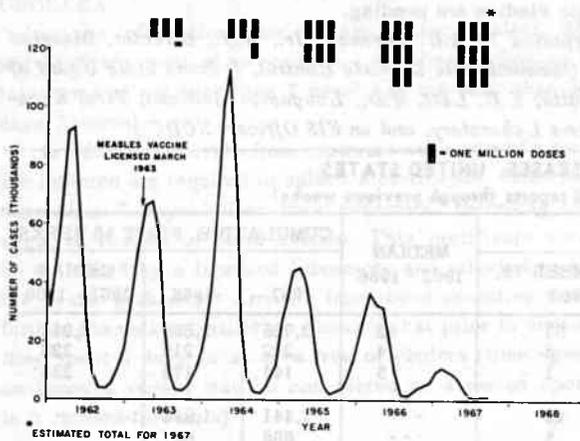
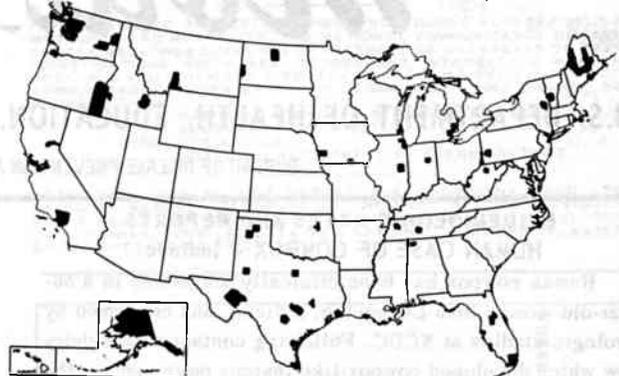
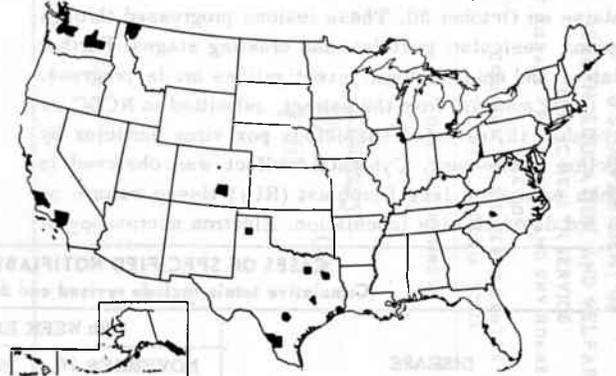


Figure 4
COUNTIES OR HEALTH DISTRICTS REPORTING
A TOTAL OF 10 OR MORE CASES OF MEASLES
OCTOBER 9 THROUGH NOVEMBER 5, 1966



OCTOBER 8 THROUGH NOVEMBER 4, 1967



of epidemiologic year 1966-67, 56 percent of the 378 reporting counties recorded three or more cases. For the same period of the current year, 38 percent of 279 counties reporting measles recorded three or more cases.

EPIDEMIOLOGIC NOTES AND REPORTS HEPATITIS - U.S. Visitors to Ontario, Canada

Between July 3 and August 10, 1967, 15 cases of infectious hepatitis occurred among a group of persons who had either vacationed or worked at a fishing lodge in Ontario, Canada. Twelve of the cases occurred among approximately 35 persons accommodated by the lodge during the first week in July. One case involved a guest who visited the lodge from July 14 through 17. The two remaining cases occurred in kitchen employees of the lodge.

The 15 cases are shown by date of onset in Figure 5. The index case, a young male kitchen worker whose duties included dishwashing, waiting on tables, and making ice cubes, became ill on July 3, but worked until July 5 when the diagnosis of infectious hepatitis was made. The dates of onset of the other 14 cases occurred over a 24-day period, July 18 - August 10, 1967. One of these

cases was in a female kitchen employee who began work June 24 and became ill August 7.

Twelve of the 13 cases among the guests were adults, ages 25-27; the remaining case was a 14-year-old girl visiting the lodge with her family. All 15 cases, including the two ill employees, developed jaundice; nine were hospitalized. There were no deaths.

The fishing lodge, located on the edge of a lake in Ontario, consists of individual family cottages equipped only with bathing facilities. Well-kept privies are distributed throughout the grounds. Three meals a day are served to the guests in a common dining room, described by the guests as "immaculate." Drinking water is obtained from the adjacent lake via an intake pipe extending 200 feet out and 40 feet deep into the lake.

(Continued on page 392)

SURVEILLANCE SUMMARY
HEPATITIS - Summer Quarter 1967-68*

During the summer quarter (13-week period from July 2 through September 30, 1967) of the current epidemiologic year 1967-68, there were 9,521 cases of viral hepatitis reported in the United States, representing a rate of 4.8 cases per 100,000 population for that period (Table 1). This was an increase of 30 percent over the rate of 3.7 (7,298 cases) reported during the corresponding quarter of the previous year.

Figure 1 shows the areas in each of the nine geographic divisions of the U.S. Table 1 lists by division the number of reported cases, rates, change in number of cases, and percent change in rates for the summer quarters of epidemiologic years 1966-67 and 1967-68. The rates were

*Hepatitis morbidity data are summarized in terms of an "epidemiologic year," which runs from the 27th week of each year through the 26th week of the succeeding year.

greater in the summer quarter of 1967-68 in all nine divisions; increases ranged from 9 to 69 percent. The largest increases were observed in the South Atlantic and West South Central Divisions (52 and 69 percent, respectively), whereas the smallest increases were noted in the Mountain and East North Central Divisions (9 and 14 percent, respectively).

Figure 2 presents the number of reported cases per 100,000 population by 4-week periods from July 1952 through the 46th week of 1967 (week ending November 18). The increased rates observed during the first 8 weeks of the fall quarter of 1967-68 were higher than those in the comparable period of 1966-67, further supporting the apparent reversal of the downward trend in hepatitis incidence, evident since the peak year (1960-61) of the last epidemic cycle.

Figure 1

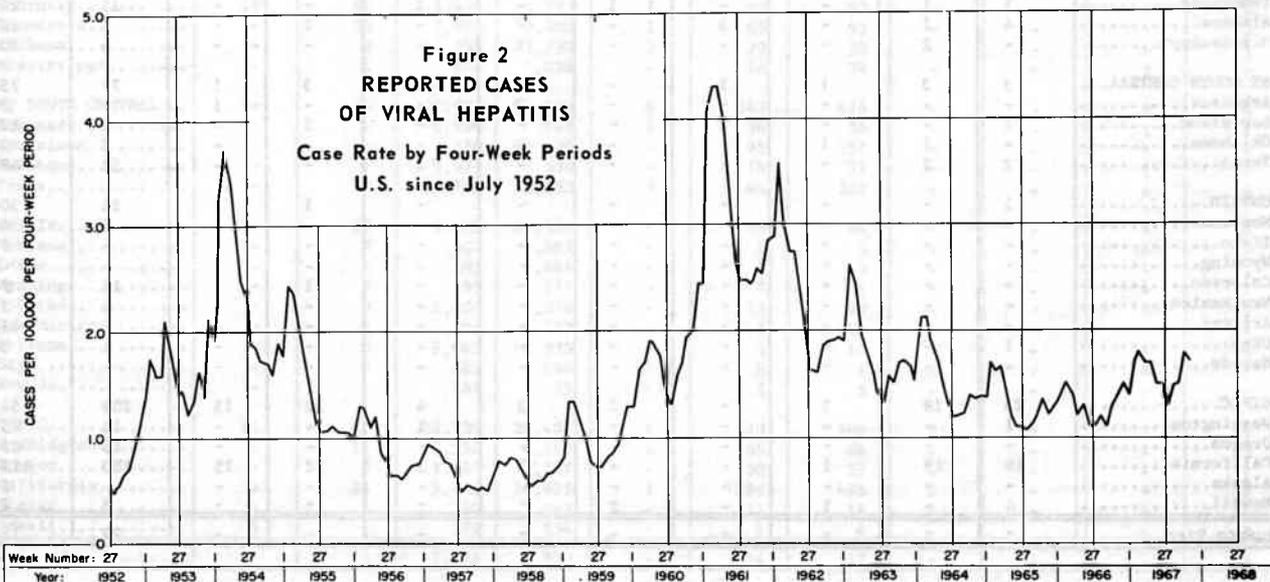


Table 1
Reported Cases and Rates of Viral Hepatitis by Division
Summer Quarter 1967-68 Compared with
Summer Quarter 1966-67

Division	Summer Quarter July 3, 1966 - Oct. 1, 1966		Summer Quarter July 2, 1967 - Sept. 30, 1967		Change from Summer Quarter 1966-1967	
	Cases	Rate*	Cases	Rate*	Cases	Percent change in rates
Total United States	7,298	3.7	9,521	4.8	+2,223	+30
New England	299	2.7	402	3.6	+103	+33
Middle Atlantic	1,229	3.3	1,615	4.4	+386	+33
East North Central	1,132	2.9	1,292	3.3	+160	+14
West North Central	480	2.7	537	3.4	+107	+26
South Atlantic	684	2.3	1,037	3.5	+353	+52
East South Central	462	3.6	585	4.5	+123	+25
West South Central	606	3.2	1,029	5.4	+423	+69
Mountain	335	4.3	365	4.7	+30	+9
Pacific	2,121	8.6	2,659	10.5	+538	+22

*Reported cases per 100,000 population based on U.S. census mid-year estimates.

Figure 2
REPORTED CASES
OF VIRAL HEPATITIS
Case Rate by Four-Week Periods
U.S. since July 1952



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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES FOR WEEKS ENDED NOVEMBER 18, 1967 AND NOVEMBER 19, 1966 (46th WEEK) - CONTINUED

AREA	MALARIA	MEASLES (Rubeola)		MENINGOCOCCAL INFECTIONS, TOTAL			POLIOMYELITIS			RUBELLA	
	1967	1967	Cumulative		1967	Cumulative		Total	Paralytic		1967
			1967	1966		1967	1966		1967	Cum. 1967	
UNITED STATES...	60	310	60,198	195,563	38	1,949	3,072	2	-	26	307
NEW ENGLAND.....	-	12	917	2,473	2	76	141	-	-	-	35
Maine.....	-	7	261	268	-	3	12	-	-	-	5
New Hampshire.....	-	-	77	80	1	3	9	-	-	-	-
Vermont.....	-	-	42	316	-	1	4	-	-	-	-
Massachusetts.....	-	3	380	815	1	36	59	-	-	-	9
Rhode Island.....	-	-	62	73	-	4	17	-	-	-	3
Connecticut.....	-	2	95	921	-	29	40	-	-	-	18
MIDDLE ATLANTIC.....	23	19	2,423	18,299	7	319	388	-	-	5	26
New York City.....	-	5	491	8,350	2	56	62	-	-	1	8
New York, Up-State.....	-	-	613	2,592	1	79	106	-	-	1	11
New Jersey.....	5	9	554	1,913	2	105	109	-	-	-	6
Pennsylvania.....	18	5	765	5,444	2	79	111	-	-	3	1
EAST NORTH CENTRAL...	6	57	5,879	69,709	8	286	490	-	-	6	107
Ohio.....	2	4	1,172	6,403	-	90	141	-	-	-	27
Indiana.....	-	1	626	5,774	3	50	85	-	-	3	1
Illinois.....	4	33	1,091	11,457	1	61	89	-	-	-	18
Michigan.....	-	7	986	14,901	3	66	127	-	-	3	29
Wisconsin.....	-	12	2,004	31,174	1	19	48	-	-	-	32
WEST NORTH CENTRAL...	-	10	2,919	9,013	2	93	158	-	-	3	16
Minnesota.....	-	-	124	1,665	-	21	35	-	-	-	-
Iowa.....	-	7	771	5,361	1	19	22	-	-	1	15
Missouri.....	-	-	339	537	1	18	61	-	-	-	-
North Dakota.....	-	1	878	1,262	-	3	11	-	-	-	-
South Dakota.....	-	-	58	40	-	7	5	-	-	-	-
Nebraska.....	-	2	655	148	-	15	9	-	-	-	1
Kansas.....	-	-	94	NN	-	10	15	-	-	2	-
SOUTH ATLANTIC.....	1	51	7,160	15,690	6	370	520	-	-	2	15
Delaware.....	-	-	50	262	-	7	5	-	-	-	-
Maryland.....	-	3	172	2,121	3	53	49	-	-	1	-
Dist. of Columbia..	-	-	24	388	-	14	14	-	-	-	1
Virginia.....	-	12	2,239	2,216	1	43	67	-	-	-	-
West Virginia.....	-	12	1,456	5,443	-	35	37	-	-	-	10
North Carolina.....	-	-	917	559	1	73	132	-	-	1	-
South Carolina.....	1	-	512	660	-	30	53	-	-	-	1
Georgia.....	-	2	39	238	-	56	68	-	-	-	-
Florida.....	-	22	1,751	3,803	1	59	95	-	-	-	3
EAST SOUTH CENTRAL...	19	31	5,432	20,097	5	153	267	-	-	2	7
Kentucky.....	19	12	1,419	4,773	1	45	93	-	-	-	3
Tennessee.....	-	15	1,991	12,488	1	65	92	-	-	-	3
Alabama.....	-	3	1,348	1,738	3	29	58	-	-	-	1
Mississippi.....	-	1	674	1,098	-	14	24	-	-	2	-
WEST SOUTH CENTRAL...	-	54	17,907	25,549	6	243	416	-	-	8	4
Arkansas.....	-	-	1,404	979	3	36	36	-	-	1	-
Louisiana.....	-	-	156	99	-	95	157	-	-	-	-
Oklahoma.....	-	1	3,359	538	-	18	21	-	-	1	-
Texas.....	-	53	12,988	23,933	3	94	202	-	-	6	4
MOUNTAIN.....	-	29	4,822	12,330	-	39	94	-	-	-	8
Montana.....	-	7	326	1,882	-	5	5	-	-	-	-
Idaho.....	-	2	395	1,664	-	3	5	-	-	-	-
Wyoming.....	-	5	193	217	-	1	6	-	-	-	-
Colorado.....	-	3	1,609	1,376	-	13	49	-	-	-	2
New Mexico.....	-	6	604	1,153	-	5	10	-	-	-	-
Arizona.....	-	6	1,043	5,335	-	5	13	-	-	-	6
Utah.....	-	-	383	648	-	4	1	-	-	-	-
Nevada.....	-	-	269	55	-	3	5	-	-	-	-
PACIFIC.....	11	47	12,739	22,403	2	370	598	2	-	-	89
Washington.....	-	11	5,590	4,565	1	36	44	-	-	-	23
Oregon.....	-	9	1,685	2,117	-	30	37	-	-	-	7
California.....	6	26	5,142	14,975	1	289	495	2	-	-	38
Alaska.....	-	-	140	592	-	11	18	-	-	-	14
Hawaii.....	5	1	182	154	-	4	4	-	-	-	7
Puerto Rico.....	-	3	2,226	3,230	-	14	17	-	-	-	2

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CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED

NOVEMBER 18, 1967 AND NOVEMBER 19, 1966 (46th WEEK) - CONTINUED

AREA	STREPTOCOCCAL SORE THROAT & SCARLET FEVER	TETANUS		TULAREMIA		TYPHOID		TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted)		RABIES IN ANIMALS	
	1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967	1967	Cum. 1967
UNITED STATES...	8,494	4	198	4	154	8	372	-	293	67	3,802
NEW ENGLAND.....	1,155	-	2	-	1	2	10	-	1	1	97
Maine.....	31	-	-	-	-	-	-	-	-	-	23
New Hampshire.....	18	-	-	-	-	-	-	-	-	1	46
Vermont.....	32	-	-	-	-	-	-	-	-	-	22
Massachusetts.....	252	-	1	-	1	2	6	-	1	-	4
Rhode Island.....	75	-	-	-	-	-	1	-	-	-	2
Connecticut.....	747	-	1	-	-	-	3	-	-	-	-
MIDDLE ATLANTIC.....	57	-	13	-	1	1	38	-	35	2	93
New York City.....	10	-	7	-	-	-	18	-	-	-	-
New York, Up-State.	-	-	1	-	1	1	11	-	9	2	77
New Jersey.....	NN	-	1	-	-	-	4	-	15	-	-
Pennsylvania.....	47	-	4	-	-	-	5	-	11	-	16
EAST NORTH CENTRAL...	529	1	23	2	14	-	40	-	22	5	363
Ohio.....	115	-	4	-	-	-	13	-	11	3	130
Indiana.....	47	-	3	-	2	-	11	-	1	-	81
Illinois.....	129	1	11	2	12	-	6	-	10	1	68
Michigan.....	136	-	4	-	-	-	8	-	-	1	23
Wisconsin.....	102	-	1	-	-	-	2	-	-	-	61
WEST NORTH CENTRAL...	441	-	17	1	22	1	21	-	4	13	886
Minnesota.....	9	-	5	-	-	-	2	-	1	2	174
Iowa.....	113	-	2	-	1	-	3	-	-	1	119
Missouri.....	4	-	8	1	9	1	10	-	1	4	160
North Dakota.....	118	-	-	-	-	-	-	-	-	3	153
South Dakota.....	46	-	1	-	2	-	-	-	-	-	116
Nebraska.....	91	-	-	-	-	-	4	-	2	-	60
Kansas.....	60	-	1	-	10	-	2	-	-	3	104
SOUTH ATLANTIC.....	1,144	1	41	-	10	2	58	-	116	3	457
Delaware.....	5	-	-	-	-	-	-	-	-	-	-
Maryland.....	122	-	-	-	-	-	2	-	21	1	4
Dist. of Columbia..	17	-	-	-	-	-	3	-	-	-	6
Virginia.....	291	1	10	-	-	-	6	-	28	-	193
West Virginia.....	277	-	1	-	2	-	2	-	1	2	62
North Carolina.....	20	-	7	-	-	-	4	-	46	-	3
South Carolina.....	6	-	1	-	2	-	10	-	5	-	2
Georgia.....	36	-	4	-	5	2	19	-	15	-	113
Florida.....	370	-	18	-	1	-	12	-	-	-	74
EAST SOUTH CENTRAL...	1,483	-	31	-	10	-	64	-	53	14	719
Kentucky.....	105	-	4	-	1	-	24	-	15	-	161
Tennessee.....	1,150	-	8	-	7	-	11	-	26	13	502
Alabama.....	158	-	11	-	-	-	12	-	12	1	46
Mississippi.....	70	-	8	-	2	-	17	-	-	-	10
WEST SOUTH CENTRAL...	792	-	48	1	80	1	38	-	42	25	854
Arkansas.....	7	-	5	1	47	-	12	-	14	3	108
Louisiana.....	2	-	4	-	8	1	15	-	2	1	67
Oklahoma.....	17	-	3	-	18	-	7	-	16	15	329
Texas.....	766	-	36	-	7	-	4	-	10	6	350
MOUNTAIN.....	1,384	-	2	-	10	-	20	-	9	1	111
Montana.....	64	-	-	-	1	-	2	-	-	-	-
Idaho.....	189	-	-	-	-	-	-	-	-	-	-
Wyoming.....	237	-	-	-	2	-	1	-	-	-	5
Colorado.....	553	-	1	-	1	-	12	-	9	-	10
New Mexico.....	145	-	1	-	-	-	2	-	-	-	34
Arizona.....	87	-	-	-	-	-	3	-	-	1	50
Utah.....	109	-	-	-	6	-	-	-	-	-	3
Nevada.....	-	-	-	-	-	-	-	-	-	-	9
PACIFIC.....	1,509	2	21	-	6	1	83	-	11	3	222
Washington.....	592	-	-	-	2	-	2	-	2	-	2
Oregon.....	121	-	1	-	1	-	3	-	3	-	4
California.....	704	2	16	-	3	1	75	-	6	3	216
Alaska.....	34	-	-	-	-	-	-	-	-	-	-
Hawaii.....	58	-	4	-	-	-	3	-	-	-	-
Puerto Rico.....	9	-	17	-	-	-	7	-	-	-	30

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Week No.
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DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED NOVEMBER 18, 1967

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes	Area	All Causes		Pneumonia and Influenza All Ages	Under 1 year All Causes
	All Ages	65 years and over				All Ages	65 years and over		
NEW ENGLAND:	756	479	32	32	SOUTH ATLANTIC:	1,197	625	41	53
Boston, Mass.-----	222	125	10	10	Atlanta, Ga.-----	124	55	5	7
Bridgeport, Conn.-----	36	23	1	4	Baltimore, Md.-----	267	140	7	17
Cambridge, Mass.-----	31	19	-	-	Charlotte, N. C.-----	44	21	2	3
Fall River, Mass.-----	23	15	-	-	Jacksonville, Fla.-----	85	44	6	3
Hartford, Conn.-----	58	31	-	5	Miami, Fla.-----	81	48	-	6
Lowell, Mass.-----	43	28	2	2	Norfolk, Va.-----	46	28	2	2
Lynn, Mass.-----	32	26	3	1	Richmond, Va.-----	80	33	3	5
New Bedford, Mass.-----	29	23	-	1	Savannah, Ga.-----	37	17	3	-
New Haven, Conn.-----	58	31	1	1	St. Petersburg, Fla.-----	107	86	4	1
Providence, R. I.-----	69	46	3	4	Tampa, Fla.-----	58	32	3	2
Somerville, Mass.-----	17	14	-	-	Washington, D. C.-----	244	108	6	6
Springfield, Mass.-----	46	34	1	1	Wilmington, Del.-----	24	13	-	1
Waterbury, Conn.-----	34	21	1	1					
Worcester, Mass.-----	58	43	10	2	EAST SOUTH CENTRAL:	700	363	35	45
					Birmingham, Ala.-----	112	54	1	9
MIDDLE ATLANTIC:	3,336	2,043	128	132	Chattanooga, Tenn.-----	39	17	2	2
Albany, N. Y.-----	58	29	1	3	Knoxville, Tenn.-----	50	33	4	1
Allentown, Pa.-----	36	23	1	2	Louisville, Ky.-----	133	74	13	4
Buffalo, N. Y.-----	146	91	1	9	Memphis, Tenn.-----	142	71	2	12
Camden, N. J.-----	42	22	1	1	Mobile, Ala.-----	55	28	-	5
Elizabeth, N. J.-----	39	23	4	5	Montgomery, Ala.-----	55	30	6	2
Erie, Pa.-----	36	21	5	1	Nashville, Tenn.-----	114	56	7	10
Jersey City, N. J.-----	72	36	2	2					
Newark, N. J.-----	106	55	8	3	WEST SOUTH CENTRAL:	1,186	625	51	72
New York City, N. Y.-----	1,755	1,080	66	58	Austin, Tex.-----	34	17	3	1
Paterson, N. J.-----	36	21	2	3	Baton Rouge, La.-----	47	24	1	2
Philadelphia, Pa.-----	391	240	13	20	Corpus Christi, Tex.-----	25	16	-	-
Pittsburgh, Pa.-----	197	115	2	8	Dallas, Tex.-----	192	97	3	14
Reading, Pa.-----	67	43	3	2	El Paso, Tex.-----	41	18	6	2
Rochester, N. Y.-----	110	65	9	8	Fort Worth, Tex.-----	100	58	8	7
Schenectady, N. Y.-----	28	24	3	-	Houston, Tex.-----	204	100	7	11
Scranton, Pa.-----	43	31	-	2	Little Rock, Ark.-----	63	36	1	5
Syracuse, N. Y.-----	58	40	2	3	New Orleans, La.-----	160	79	6	10
Trenton, N. J.-----	48	29	1	1	Oklahoma City, Okla.-----	100	62	1	3
Utica, N. Y.-----	22	19	2	1	San Antonio, Tex.-----	118	62	2	7
Yonkers, N. Y.-----	46	36	2	-	Shreveport, La.-----	56	24	8	7
					Tulsa, Okla.-----	46	32	5	3
EAST NORTH CENTRAL:	2,806	1,608	81	148	MOUNTAIN:	449	257	22	13
Akron, Ohio-----	76	41	-	5	Albuquerque, N. Mex.-----	59	30	3	3
Canton, Ohio-----	42	27	7	1	Colorado Springs, Colo.-----	22	13	4	1
Chicago, Ill.-----	770	431	24	35	Denver, Colo.-----	122	72	1	3
Cincinnati, Ohio-----	197	120	7	6	Ogden, Utah-----	20	12	2	1
Cleveland, Ohio-----	249	124	1	18	Phoenix, Ariz.-----	99	48	4	2
Columbus, Ohio-----	135	65	5	13	Pueblo, Colo.-----	24	13	1	-
Dayton, Ohio-----	78	44	2	1	Salt Lake City, Utah-----	48	35	4	1
Detroit, Mich.-----	343	206	5	22	Tucson, Ariz.-----	55	34	3	2
Evansville, Ind.-----	32	22	1	2					
Flint, Mich.-----	54	29	2	5	PACIFIC:	1,519	931	37	64
Fort Wayne, Ind.-----	53	31	3	3	Berkeley, Calif.-----	18	15	-	-
Gary, Ind.-----	40	20	2	8	Fresno, Calif.-----	47	27	1	6
Grand Rapids, Mich.-----	63	44	4	7	Glendale, Calif.-----	25	17	-	-
Indianapolis, Ind.-----	185	102	2	9	Honolulu, Hawaii-----	56	21	-	8
Madison, Wis.-----	37	23	-	3	Long Beach, Calif.-----	72	47	1	2
Milwaukee, Wis.-----	129	81	3	2	Los Angeles, Calif.-----	468	283	11	18
Peoria, Ill.-----	51	25	-	4	Oakland, Calif.-----	69	40	1	2
Rockford, Ill.-----	36	27	6	-	Pasadena, Calif.-----	30	23	-	-
South Bend, Ind.-----	56	36	2	1	Portland, Ore.-----	118	79	2	4
Toledo, Ohio-----	125	69	4	2	Sacramento, Calif.-----	58	41	2	2
Youngstown, Ohio-----	55	41	1	1	San Diego, Calif.-----	120	75	3	8
					San Francisco, Calif.-----	174	97	5	2
WEST NORTH CENTRAL:	897	561	29	50	San Jose, Calif.-----	29	18	-	1
Des Moines, Iowa-----	55	36	-	1	Seattle, Wash.-----	128	78	7	9
Duluth, Minn.-----	20	11	-	-	Spokane, Wash.-----	68	46	2	-
Kansas City, Kans.-----	44	27	2	7	Tacoma, Wash.-----	39	24	2	2
Kansas City, Mo.-----	139	85	4	11					
Lincoln, Nebr.-----	43	29	-	2	Total	12,846	7,492	456	609
Minneapolis, Minn.-----	112	71	2	7					
Omaha, Nebr.-----	86	50	2	1					
St. Louis, Mo.-----	265	161	12	16					
St. Paul, Minn.-----	88	63	4	2					
Wichita, Kans.-----	45	28	3	3					

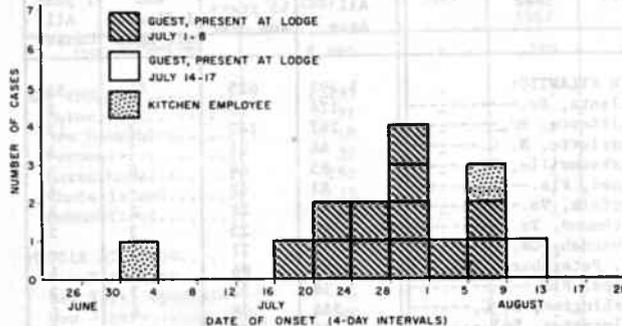
Cumulative Totals
including reported corrections for previous weeks

All Causes, All Ages -----564,939
 All Causes, Age 65 and over-----322,255
 Pneumonia and Influenza, All Ages----- 19,726
 All Causes, Under 1 Year of Age----- 28,707

HEPATITIS - U.S. Visitors to Ontario, Canada

(Continued from page 386)

Figure 5

HEPATITIS CASES RELATED TO FISHING LODGE
ONTARIO, CANADA - JULY 3-AUGUST 10, 1967

A routine water sample taken May 28 was negative. Another sample taken in July showed 15 total coliforms but was negative for *Escherichia coli*. Chlorination was started immediately. In the opinion of the local health authorities, sanitation facilities at the lodge were quite adequate. No gastrointestinal illnesses were reported among the guests in July.

Both the occurrence of cases over a very short period of time and the age distribution suggested a common source outbreak of infectious hepatitis, with exposure occurring during the first week in July. All but one of the affected guests were at the lodge during this period; this was the same time the male kitchen worker who became ill with hepatitis was experiencing his acute illness (July 3-5). The other kitchen employee who became ill was exposed to the index case during this same period and subsequently became ill one month later.

The guest who was not at the lodge during the first week of July developed hepatitis approximately 30 days later on August 10. However, none of the guests who had been at the lodge during the first week of July was present during his stay. This guest had a history of contact with a jaundiced family member who may have had a case of infectious hepatitis. Thus, this guest may represent a case of hepatitis unrelated to the common source outbreak.

(Reported by J.S. Bell, Dr. P.H., Chief, Epidemiology, Ontario Department of Health; William J. Dougherty, M.D., Director, and Paul Marzinsky, both with Division of Preventable Disease Control, New Jersey State Department of Health; and an EIS Officer.)

Editorial Comment:

Most of the guests of the lodge are U.S. residents; the 13 guests who recently developed hepatitis were from four states. Although the cases were geographically widely separated, the outbreak became apparent by careful monitoring of individual hepatitis surveillance case records by the New Jersey State Department of Health. The ensuing investigation represented a cooperative effort by the Canadian health authorities, the epidemiologists of the four involved states, and the Hepatitis Unit, NCDC.

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IN ADDITION TO THE ESTABLISHED PROCEDURES FOR REPORTING MORBIDITY AND MORTALITY, THE NATIONAL COMMUNICABLE DISEASE CENTER WELCOMES ACCOUNTS OF INTERESTING OUTBREAKS OR CASE INVESTIGATIONS WHICH ARE OF CURRENT INTEREST TO HEALTH OFFICIALS AND WHICH ARE DIRECTLY RELATED TO THE CONTROL OF COMMUNICABLE DISEASES. SUCH COMMUNICATIONS SHOULD BE ADDRESSED TO:

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ATTN: THE EDITOR
 MORBIDITY AND MORTALITY WEEKLY REPORT

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES ON SATURDAY; COMPILED DATA ON A NATIONAL BASIS ARE RELEASED ON THE SUCCEEDING FRIDAY.

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